



## Department of Mechanical Engineering

### PR 8592 – Welding Technology

#### Unit I - MCQ Bank

1. Which flame is suitable for welding of ferrous metals, Cu and Al alloys?

- A. Oxidising flame
- B. Carburising flame
- C. Neutral flame**
- D. None of the above

Answer: (C)

2. Which flame is suitable for cutting operations?

- A. Oxidising flame**
- B. Carburising flame
- C. Neutral flame
- D. None of the above

Answer: (A)

3. Which flame is suitable for welding of nonferrous metals (brasses and bronzes)?

- A. Oxidising flame**
- B. Carburising flame
- C. Neutral flame
- D. None of the above

Answer: (A)

4. Which flame is suitable for welding steel?

- A. Oxidising flame**
- B. Carburising flame
- C. Neutral flame
- D. None of the above

Answer: (A)

5. Which of the following is not true for gas welding?

- A. Heat affected zone and distortion are less as compare to arc welding**
- B. It is suitable for thin sheets
- C. It is slower than arc welding

D. There are safety problems in storing and handling the gases

Answer: (A)

6. The temperature of arc in case of arc welding is

A. 2000°C

B. 2600°C

C. 3000°C

**D. 3600°C**

Answer: (D)

7. In arc welding, arc initiation voltage is of the order

A. 20-60V

**B. 60-100V**

C. 100-140V

D. 140-180V

Answer: (B)

8. A gap of \_\_\_\_\_ is maintained for producing sound weld

A. 1mm

**B. 3mm**

C. 5mm

D. 7mm

Answer: (B)

9. Which of the following welding process uses non-consumable electrode?

**A. Gas tungsten arc welding (TIG)**

B. Shielded metal arc welding

C. CO<sub>2</sub> shielded welding

D. Gas metal arc welding (MIG)

Answer: (A)

10. In arc welding, the three elements to be controlled to obtain satisfactory welding operation are

**A. Current, voltage and speed of travel**

B. Current, voltage and arc length

C. Current, arc length and speed of travel

D. Voltage, arc length, and speed of travel

Answer: (A)

11. In Gas tungsten arc welding (TIG) the following polarity is used

A. Direct current straight polarity (DCSP)

B. Direct current reverse polarity (DCRP)

C. Alternating Current high frequency (ACHF)

**D. All of the above**

Answer: (D)

12. Heat is created by the chemical reaction in

A. Resistance welding

B. Oxy-acetylene welding

C. Tungsten arc welding

**D. Thermite welding**

Answer: (D)

13. Which of the following is not considered a type of a metal transfer for GMAW?

A. Short circuiting

B. Spray

C. Globular

**D. Droplet**

Answer: (D)

14. Which of the following gases can be used as shielded gases for GMAW?

A. Carbon dioxide

B. Argon-oxygen

C. Argon-carbon dioxide

**D All the above**

Answer: (D)

15. Which of the following is the function of the flux coating of a SMAW electrode?

A. Alloying

B. Deoxidation

C. Shielding

**D. All the above**

Answer: (D)

16. In the AWS system SMAW electrode designations, the next to the last digit refers to:

A. Impact strength

B. Electrode coating

**C. Welding position**

D. Strength

Answer: (C)

17. Which of the following is an incorrect statement about a SMAW electrode as E7024?

**A. It is a low hydrogen type**

- B. The weld deposit has a minimum tensile strength of 70,000 psi
- C. It is suitable for use in the flat and horizontal fillet positions only
- D. It is an electrode for welding carbon steel.

Answer: (A)

18. Which of the following gas mixtures is not used in Gas tungsten arc welding (TIG)?

- A. Argon-Helium
- B. Argon-Nitrogen**
- C. Argon-Hydrogen
- D. Argon-Carbon dioxide

Answer: (B)

19. In Gas metal arc welding (MIG) which of the following polarity is generally used

- A. Direct current straight polarity (DCSP)**
- B. Direct current reverse polarity (DCRP)
- C. Alternating Current high frequency (ACHF)
- D. All of the above

Answer: (A)

20. Which welding process is used to join two thick plates in one single pass?

- A. Oxy-acetylene welding
- B. Gas tungsten arc welding (TIG)
- C. Gas metal arc welding (MIG)
- D. Electro slag welding**

Answer: (D)

21. TIG welding is best suited for welding.....

- A. Mild welding
- B. Stainless steel
- C. Carbon steel
- D. Aluminum**

Answer: (D)

22. Submerged arc welding is.....

- A. A process which uses a mixture of iron oxide and granular Aluminium
- B. Accomplished by maintaining a hot molten metal pool between plates
- C. A process in which arc is maintained under a blanket of flux**
- D. All of the above

Answer: (C)

23. The electro slag welding is

- A. A process which uses a mixture of iron oxide and granular Aluminium
- B. Accomplished by maintaining a hot molten metal pool between plates**
- C. A process in which arc is maintained under a blanket of flux
- D. There is nothing called electro slag

Answer: (B)

24. Arc-welding uses following electric supply

- A. A.C.
- B. D.C.
- C. Both AC and DC**
- D. Spiral waveform

Answer: (C)

25. The most commonly used flame in gas welding is.

- A. Neutral**
- B. Oxidising
- C. Carburising
- D. All of the above

Answer: (A)